



83	32.6	2.4	1119	22	AAH49504	Human GTP-binding
84	32.6	2.4	1119	22	AAD02585	Human G-protein co
85	32.6	2.4	1119	22	AAF86237	Human G-protein co
86	32.6	2.4	1119	24	AAS98045	Human G-protein co
87	32.6	2.4	1237	24	AAS98085	Human DNA for pote
88	32.6	2.4	1560	24	AAS19414	Human DNA for pote
89	32.6	2.4	1720	22	AAF28693	Human cDNA encodin
90	32.6	2.4	2444	22	AAD26369	Human G-protein HP03
91	32.6	2.4	2480	22	AAD06509	Human G-protein co
92	32.6	2.4	2559	21	AAD50503	Human G-protein co
93	32.6	2.4	3180	22	AAF25830	Human G-protein co
94	32.6	2.4	15783	22	AAS39803	Genomic sequence #
95	32.6	2.4	15783	22	AAK90159	S-erythrae erythr
96	32.4	2.4	3412	20	AAK25772	Sugar biosynthesis
97	32.4	2.4	3756	18	AAT72684	DNA encoding novel
98	32.4	2.4	3993	23	AAS86620	Restriction fragme
99	32.4	2.4	5559	15	AAQ55260	5.6 kb E11 Pseudom
100	32.4	2.4	5559	18	AAT99212	

## ALIGNMENTS

## RESULT 1

AA12028 strand; DNA; 1344 BP.

AA12028;

08-OCT-1999 (first entry)

Neisseria gonorrhoeae ORF22 polynucleotide sequence.

Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine;

treatment; Neisseria infection; meningitis; septicemia; gonorrhea; ss.

Neisseria gonorrhoeae.

MO9924578-A2.

20-MAY-1999.

09-OCT-1998; 98MO-1B01665.

01-SEP-1998; 98GB-0019016.

06-NOV-1997; 97GB-0023516.

14-NOV-1997; 97GB-0024190.

27-NOV-1997; 97GB-0024386.

10-DEC-1997; 97GB-0025158.

14-JAN-1998; 98GB-0000759.

(CHIR-) CHIRON SPA.

Grandi G, Masignani V, Pizzo M, Rappuoli R, Scarlato V;

WPI: 1999-327407/27.

P-PSDB; AAT38365.

Claim 9: Page 125; 524pp: English.

Nucleotide sequences AA11972-212358 represent open reading frames (ORFs) of *Neisseria meningitidis* and *N. gonorrhoeae* which encode antigenic proteins (see AAT38499-Y18944). The antigenic proteins, their fragments, their nucleic acids and antibodies are used for diagnosis, prevention (as vaccines) or treatment of *Neisseria* infections, such as meningitis, septicemia and gonorrhea. Both organisms are closely related. Fragments of the nucleic acids are useful as hybridisation probes and antisense reagents.

Sequence 1344 BP; 334 A; 363 C; 362 G; 285 T; 0 other;

## Query Match

Best Local Similarity 100.0%; Score 1344; DB 20; Length 1344;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	atgattaaatcaaaaagcttaaatctggccatcgccggcgagccggaacgaatcatt	60
DB	1	atgattaaatcaaaaagcttaaatctggccatcgccggcgagccggaacgaatcatt	60
QY	61	tatgacggccggcgccattaccgaagtcggtgtgtgtgtgtgtgtgtgtgtgtgtgt	120
DB	61	tatgacggccggcgccattaccgaagtcggtgtgtgtgtgtgtgtgtgtgtgtgtgt	120
QY	121	ccctgatgaataataagaaggtgaacgcgttcaaaaaggccaaagtgtgtgtgtgtgt	180
DB	121	ccctgatgaataataagaaggtgaacgcgttcaaaaaggccaaagtgtgtgtgtgtgt	180
QY	181	aaaaagaatccggggt	240
DB	181	aaaaagaatccggggt	240
QY	241	cggtgcaaaaagcggt	300
DB	241	cggtgcaaaaagcggt	300
QY	301	gagttcgaaacgctacgttaagcgctgtgcaaaatttgagagcgaaagaatgtgcgcg	360
DB	301	gagttcgaaacgctacgttaagcgctgtgcaaaatttgagagcgaaagaatgtgcgcg	360
QY	361	aacctgattcaataggttatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	420
DB	361	aacctgattcaataggttatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	420
QY	421	gcccgaatgcccggcggt	480
DB	421	gcccgaatgcccggcggt	480
QY	481	gcccgaatgcccggcggt	540
DB	481	gcccgaatgcccggcggt	540
QY	541	ttgagccgcttgacgaacgaatccatctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	600
DB	541	ttgagccgcttgacgaacgaatccatctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	600
QY	601	ttcgaataatgctgcgaatccgaacacatgaatttggcgccgcatcccgccggtgtgt	660
DB	601	ttcgaataatgctgcgaatccgaacacatgaatttggcgccgcatcccgccggtgtgt	660
QY	661	agtgcaacgacattatcattatcgaacgagcggtgtgtgtgtgtgtgtgtgtgtgtgtgt	720
DB	661	agtgcaacgacattatcattatcgaacgagcggtgtgtgtgtgtgtgtgtgtgtgtgtgt	720
QY	721	aattatcaagaagctgt	780
DB	721	aattatcaagaagctgt	780
QY	781	cggt	840
DB	781	cggt	840
QY	841	ggttgcaaggt	900
DB	841	ggttgcaaggt	900
QY	901	ttcgggttggtatgt	960
DB	901	ttcgggttggtatgt	960
QY	961	caaatcagattccgttatcgaagaagcgccgagcaaaagctgtgtgtgtgtgtgtgtgt	1020
DB	961	caaatcagattccgttatcgaagaagcgccgagcaaaagctgtgtgtgtgtgtgtgtgt	1020



Db 901 tccggttcglatgaaacgagcgagatcacaaagcgagcagattatttggaagctac 960  
 QY 961 cacatcagatcttcggtatcgaagaagcgagcaagaagactgttgcgtggttcgcg 1020  
 Db 961 cacatcagatcttcggtatcgaagaagcgagcaagaagactgttgcgtggttcgcg 1020  
 QY 1021 ccgagcgcggaacaatactccatcacgagcagacacactctgcgcatcttcttaaaacaa 1080  
 Db 1021 ccgagcgcggaacaatactccatcacgagcagacacactctgcgcatcttcttaaaacaa 1080  
 QY 1081 ctctcaagttcagcagcgagcagcgagcagcgagcagcgagcagcgagcagcgagcagc 1140  
 Db 1081 ctctcaagttcagcagcgagcagcgagcagcgagcagcgagcagcgagcagcgagcagc 1140  
 QY 1141 tatgagcgagtaatcgctgtgagacacccgctacactctgttgcgagattatgcgtc 1200  
 Db 1141 tatgagcgagtaatcgctgtgagacacccgctacactctgttgcgagattatgcgtc 1200  
 QY 1201 ggcgataccgagcagcgagcagcgagcagcgagcagcgagcagcgagcagcgagcagc 1260  
 Db 1201 ggcgataccgagcagcgagcagcgagcagcgagcagcgagcagcgagcagcgagcagc 1260  
 QY 1261 ttgtgagcttcgctgcgagcagcgagcagcgagcagcgagcagcgagcagcgagcagc 1320  
 Db 1261 ttgtgagcttcgctgcgagcagcgagcagcgagcagcgagcagcgagcagcgagcagc 1320  
 QY 1321 gaacacattgagaagaagagctga 1344  
 Db 1321 gaacacattgagaagaagagctga 1344

RESULT 3  
 ID AAA81495/C  
 ID AAA81495 standard: DNA: 44608 BP.

AC AAA81495;  
 DT 04-DEC-2000 (first entry)

DE N. meningitidis partial DNA sequence gnm\_42 SEQ ID NO:42.

KW Neisseria meningitidis; Neisseria gonorrhoeae; genome; immunogenic;  
 KW antigen; vaccine; diagnosis; infection; antibacterial; identification;  
 KW Meningococcus B; MenB; ds.  
 OS Neisseria meningitidis.

PN W0200022430-A2.

PD 20-APR-2000.

PE 08-OCT-1999; 99WC-US23573.

PR 09-OCT-1998; 98US-0103794.  
 PR 30-APR-1999; 99US-0132068.

PA (CHIR ) CHIRON CORP.

PI Frazer CM, Hickey E, Peterson J, Tettelin H, Venter JC,

PI Mesigian V, Galeotti C, Mora M, Ratti G, Scarselli M, Scarlato V;

PI Rappuoli R, Pizza M;

DR WPI; 2000-318079/27.

PT Isolated nucleotide sequences of Neisseria meningitidis which can be

PT used in the diagnosis and treatment of N. meningitidis infection and

PT other Neisseria infections, for example, N.gonorrhoea

PS Claim 7: Page 1283-1296; 1760bp; English.  
 CC The present invention describes methods of obtaining immunogenic  
 CC proteins from Neisseria genomic sequences. AAA81495 to AAA82414  
 CC represent specifically claimed Neisseria meningitidis genomic DNA

CC sequences; AAA81260 to AAA81303 and AAB25620 to AAB25663 represent  
 CC Neisseria DNA sequences and their corresponding proteins; AAA81254 to  
 CC AAA81259 and AAA81304 to AAA81321 represent PCR primers used in the  
 CC isolation of Neisseria meningitidis DNA sequences; and AAA81322 to  
 CC AAA81452 represent Neisseria meningitidis MenB polynucleotide ORF  
 CC sequences, which are all used in the exemplification of the present  
 CC invention. The nucleic acid sequences, protein sequences, and antibodies  
 CC against them, can be used in the manufacture of a composition. The  
 CC composition can be used as a medicament (or in the manufacture of a  
 CC medicament) for treating, preventing or diagnosing infection due to  
 CC Neisseria bacteria. For example, some of the identified proteins could  
 CC be components of vaccines against Meningococcus B; against all serotypes;  
 CC and/or against all pathogenic Neisseriae. Identification of sequences  
 CC from the bacterium will also facilitate production of biological probes,  
 CC particularly organism-specific probes. Attempts to make efficacious  
 CC Meningococcus B vaccines have failed mainly due to antigen tolerance.  
 CC Multivalent vaccines have also been tried but none have successfully  
 CC overcome antigenic variability. The provision of further, complete  
 CC sequences may provide an opportunity to identify secreted or surface  
 CC exposed proteins that may be presumed targets for the immune system and  
 CC which are not antigenically variable or at least more conserved than  
 CC other more variable regions.

SO Sequence 44608 BP; 10938 A; 10835 C; 11999 G; 10834 T; 2 other;

Query Match 90.2%; Score 1212.8; DB 21; Length 44608;  
 Best Local Similarity 93.9%; Pred. No. 0;  
 Matches 1262; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 1 atgattaaatcaaaaaggtctaatctgcccacgagcgagcagcgagcagcgagcagc 60  
 Db 25944 ATGATTAAATCAAAAAGGTCTAATCTGCCACCTCCGCGGAGACCGGCAAGCCGTT 25885  
 QY 61 tatgagcgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 120  
 Db 25884 TACGACGGCGCCGCCATACGAGAGTGCGGTGGTTGGCACAATATGCCGATATGCC 25825  
 QY 121 cccctgattgaaatcaaaaaggtctgaaagcagcagcagcagcagcagcagcagc 180  
 Db 25824 CCTCTGATGAAATCAAAAAGGTCTGAAAGGAGGATCCGCTCAAAAAGGCGCAATGCTGTTGAAGAC 25765  
 QY 181 aaaaagatccgagcgagcagcagcagcagcagcagcagcagcagcagcagcagc 240  
 Db 25764 AAAAAGATCCGCGCGGTGTTACTGCGCGGCTTCAAGCAAAATGCCGATATCAC 25705  
 QY 241 cgtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 300  
 Db 25704 CGTGGCAAAAAGCGCGTACTGATGATGATGATGATGATGATGATGATGATGATGATG 25645  
 QY 301 gattcgaacgctacgtacgtacgtacgtacgtacgtacgtacgtacgtacgtacgtac 360  
 Db 25644 GAGTTTGAACGCTACGCTACGCTACGCTACGCTACGCTACGCTACGCTACGCTACGCTAC 25585  
 QY 361 aacctgattcaatcaagcgtatgactgctgctgctgctgctgctgctgctgctgctgct 420  
 Db 25584 AACCTGATTCAAATCCGCTTGTGACTGCGGTGCGGACCGCGTTCAGCAAAATTCCT 25525  
 QY 421 ggcgtatgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 480  
 Db 25524 GCCGTGATGCGAGGCGGTTCGCGCATCTTCGCAATGCGATGCGATGCGATGCGT 25465  
 QY 481 ggcgacctagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 540  
 Db 25464 GCCGACCTACAGGCTATTCATAAAGAGCGCGGAGATTTCAAAGCGGCGCTGTGTA 25405  
 QY 541 ttgagcgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 600  
 Db 25404 TTGAGCGGCTTACAGCAAGCGCAAAATTCATGTTTGAAGGAGTGCGGAGAGAGTCCG 25345  
 QY 601 tctgaagaatgctgcgaatatcgaacacataatcttgagcgagcagcagcagcagcagcagc 660  
 Db 25344 TCTGAATAATGCTGCCAATCATGAAACACATGAAATTCAGGCGGCGGCGATCTCTGCGGTTTG 25285



Db 297549 AACCTGATCCATCCGGTTGTGTGATGCGCTGGCGCACCGCTCCGTTCCAGCAAAATTCCT 2979490  
 QY 421 gccgtatagtcgagccgcttccgcatcttcgttaagtcgagtcgacccaatccgctgctc 480  
 Db 297489 GCCGTCGATGCGGAGCGCGTTCGCATCTCTGTCAATGCGATGAGCACCAATCCGCTGGCT 297430  
 QY 481 gccgacccctacgctcatcatcaagaagccgagccgaggaacttcnaagcgccgctgttgta 540  
 Db 297429 GCCGACCCCTAGGTCATATCAAAAGACCGCGGAGATTTCAAACGGCGCTGTGTGTA 297370  
 QY 541 ttgagccgcttgagccgagcgttaaatccatgctgtgttaagcgcagcgagcgagtcgag 600  
 Db 297369 TTGAGCGGTTTGTAGCCGACGCAAAATCCATGTTGTGAAGCGCAGCTGGCCACACCTGCG 297310  
 QY 601 tctgaaaatgctgcacatatacgaaacatagaatttgcgagccgcatctccgctgtg 660  
 Db 297309 TCTGAAAATGCTGCTCAACATCGAAACACATGATTCGGGCGGCCGCTCCTCCGCTTTCG 297250  
 QY 661 agtgcagcagcagcatcatcttcgagccgagtcgagtcgagcgagcgaataaaccgtgtgacatc 720  
 Db 297249 AGTGGCAGCGACATTTATTTATTCATGAGCGCGTGGCGGCAATMAAACCGTGTGACATC 297190  
 QY 721 aattatcaagaagtgatgtctatcggaagcttgcgttaacagcgagcgctctgaataccgag 780  
 Db 297189 AATTATCAAGATGTATATATACCATTTGGCGCTTGTTCGACAGCGCCCTGTGAACACCGAG 297130  
 QY 781 cgcgtgtgttcgcttgagcgagcgtcaagtcaacaacacgagcgtcttcgtgacgctttg 840  
 Db 297129 CGCGTATTTGCTTGTAGTGTCTCAGTCAACAAACCGCCCTCTTCGTAACGCTTTTG 297070  
 QY 841 ggtgcgaaaggtgtctcaacttccgagccggaattggtgagcgaggaacacgctgatt 900  
 Db 297069 GGTGCGAAGTATTCGCAATTTACTCGGCGGCAATTTGTTGACACAGAACCGCGTATTT 297010  
 QY 901 tccggttcgtatctgaacggtgagcttgacacagcgagcgagcttcttgaacgctgac 960  
 Db 297009 TCCGGTTCGATATGACAGGCGCGATTCACACAGCGCGGACGATTTTGGAGCGTTAC 296950  
 QY 961 caaatcaagttcgttatcgaagaagcgagcgaagaagcgagctgctgagctggtgagc 1020  
 Db 296949 CACATTCAGATTTCCGTTATGGAAGAGCGCGCAGCAAAAGCGTGTGCGTGGGTGCG 296890  
 QY 1021 ccgagccgagcaaatatactcatcagcgagcagcactctcgccatcttccttaaaacaa 1080  
 Db 296889 CCGCAGCGGACAAATACTCATCAGCGGTACACCTCGGCCATTTCCTGAATAAACAA 296830  
 QY 1081 ccttcaagttcagacagcgctcaacgagcgagcagcgagcagctgtgacatcgagcact 1140  
 Db 296829 CTTCTCAAGTTTCAACACAGCGCTCAACGCGGCGGACCGCCATGTTGCCGATTGTTACT 296770  
 QY 1141 tatgagcgagtaagtcgagtcgtgacatcttcgcttaactgttttgcgagatttaactgctc 1200  
 Db 296769 TACGAGCGCGTATGCCCTTGATGATCTCTCCACCTGCTTTTGGCGATTTAATTCGTC 296710  
 QY 1201 ggcgataccgagcagcgagcgttgggtgtgttgtaattggaacgaagacactcgct 1260  
 Db 296709 GCGCATTCGACACCGCGGAGGCGATTGGTGTCTTGGAATTTGACGAACAAACCTCGCT 296650  
 QY 1261 ttgtgagcttcgctctccgagcgagcaataagatacgccgctgttgcgaagtgctg 1320  
 Db 296649 TTGTGCGACTTCTGCTGCGCGGCAATGCAATACGAGCGCCCTGTTGCGCAAAAGTGTG 296590  
 QY 1321 gaaacacatgagaaggaagctga 1344  
 Db 296589 GAAACCATTTGAGAAGGAGGCTGA 296566

RESULT 5

AAZ12027

ID AAZ12027 standard; DNA; 1344 BP.

XX

AC AAZ12027;

XX

DT 08-OCT-1999 (first entry)  
 XX Neisseria meningitidis strain A complete ORF22 sequence.  
 DE Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine;  
 XX treatment; Neisseria infection; meningitis; septicaemia; gonorrhoea; ss.  
 KW Neisseria meningitidis.  
 OS Neisseria meningitidis.  
 XX  
 XX WO924578-A2.  
 XX  
 XX 20-MAY-1999.  
 PD  
 XX  
 PF 09-OCT-1998; 98WO-1B01655.  
 XX  
 PR 01-SEP-1998; 98GB-0019016.  
 PR 06-NOV-1997; 97GB-0023516.  
 PR 14-NOV-1997; 97GB-0024190.  
 PR 18-NOV-1997; 97GB-0024386.  
 PR 27-NOV-1997; 97GB-0025158.  
 PR 10-DEC-1997; 97GB-0026147.  
 PR 14-JAN-1998; 98GB-0000759.  
 XX  
 PA (CHIR-) CHIRON SPA.  
 XX  
 PI Grandi G, Mesigiani V, Pizzo M, Rappuoli R, Scarlato V;  
 XX WPL 1999-327407/27.  
 DR P-PSDB: AAY38562.  
 XX  
 DR Proteins from Neisseria meningitidis and N. gonorrhoeae useful for  
 XX diagnosis, treatment and prevention of infection  
 PS Claim 9; Page 123; 524pp; English.  
 CC Nucleotide sequences AAZ11972-Z12358 represent open reading frames  
 CC (ORFs) of Neisseria meningitidis and N. gonorrhoeae which encode  
 CC antigenic proteins (see AAY38499-Y38944). The antigenic proteins, their  
 CC fragments, their nucleic acids and antibodies are used for diagnosis,  
 CC prevention (as vaccines) or treatment of Neisseria infections,  
 CC such as meningitis, septicaemia and gonorrhoea. Both organisms  
 CC are closely related. Fragments of the nucleic acids are useful  
 CC as hybridisation probes and antisense reagents.  
 XX  
 XX Sequence 1344 BP; 323 A; 347 C; 368 G; 289 T; 17 other:  
 SQ

## Query Match

Best Local Similarity 86.7%; Score 1165.4; DB 20; Length 1344;  
 Matches 1226; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 1 atgtttaaatcaaaaaaggtctaataatcggccatcgcgagcgagcgaagaatcatt 60  
 Db 1 atgtttaaatcaaaaaaggtctaataatcggccatcgcgagcgagcgaagaatcatt 60  
 QY 61 tatgagcgagcgcgttcatatcgaagtcgagtcggttgcgaggaataatgctgagtcgc 120  
 Db 61 tatgagcgagcgcgttcatatcgaagtcgagtcggttgcgaggaataatgctgagtcgc 120  
 QY 121 cctctgatgtaaaatcaaggaaggtgaaagcgctcaaaaaagcgcaagtgctgttgaagac 180  
 Db 121 cctctgatgtaaaatcaaggaaggtgaaagcgctcaaaaaagcgcaagtgctgttgaagac 180  
 QY 181 aaaaagaatccggcgctgaattatctatcgcgagcgttcgaagcaaatatgcgctattcac 240  
 Db 181 aaaaagaatccggcgctgaattatctatcgcgagcgttcgaagcaaatatgcgctattcac 240  
 QY 241 cgtgcgaaaaagcgcttactcagtcagtcgtgattgcgcttgaaggaagcaagcaaatc 300  
 Db 241 cgtgcgaaaaagcgcttactcagtcagtcgtgattgcgcttgaaggaagcaagcaaatc 300  
 QY 301 ggttcgaacgctacgttaccgtgaagcgctgcaaatatgagcagcgaagaaagtgccgcg 360  
 Db 301 ggttcgaacgctacgttaccgtgaagcgctgcaaatatgagcagcgaagaaagtgccgcg 360



[illegible]

ID	AAAT42063:	standard; DNA: 1830121 BP.
XX	AAAT42063:	
AC	AAAT42063:	
XX		
DT	14-SEP-1999	(first entry)
XX		
DE	Haemophilus influenzae complete genome sequence.	
XX		
KW	Genome: bacterium; Haemophilus influenzae; computer readable medium;	
KM	expression modulating fragment; regulation; gene expression; vector;	
KW	organism; open reading frame; ORF; ds.	
XX		
OS	Haemophilus influenzae.	
XX		
PN	M09633276-A1.	
XX		
PD	24-OCT-1996.	
XX		
PF	22-APR-1996; 96MO-US05320.	
XX		
PR	07-JUN-1995; 95US-0487429.	
XX		
PR	21-APR-1995; 95US-0426787.	
XX		
PR	07-JUN-1995; 95US-0476102.	
XX		
PA	(HUMA-) HUMAN GENOME SCI INC.	
XX	(UYJO ) UNITV JOHNS HOPKINS.	
PI		
XX	Adams MD, Fleischmann RD, Smith HO, Venter JC, White O;	
DR	WPL: 1996-485782/48.	
XX		
PT	Haemophilus influenzae Rd genome recorded on computer readable	
PT	medium - useful for identifying commercially important nucleic acid	
XX	fragments by homology searching	
PS		
XX	Claim 1: Page 77.2-77.1091; 1291pp; English.	
CC	This sequence represents the complete genome sequence of the bacterium	
CC	Haemophilus influenzae strain Rd. The invention relates to a computer	
CC	readable medium (CRM) having recorded upon it the complete H.influenzae	
CC	nucleotide sequence (1), a representative fragment of (1) or a nucleotide	
CC	sequence at least 99% identical to (1). By providing the full-length	
CC	genomic sequence in a computer readable form, it is possible to identify	
CC	commercially important nucleic acid fragments and expression modulating	
CC	fragments (EMFs) of the Haemophilus genome. The EMFs can be used to	
CC	regulate the expression of a nucleic acid molecule. Vectors and altered	
CC	organisms comprising the predicted ORFs can be used to produce any of the	
CC	polypeptide fragments of the H. influenzae Rd genome.	
XX		
SQ	Sequence 1830121 BP; 567399 A; 350615 C; 347389 G; 564036 T; 682 other;	
Query Match	40.6%; Score 545.8; DB 17: Length 1830121;	
Best Local Similarity	63.8%; Pred. No. 4.9e-155;	
Matches 860; Conservative	0; Mismatches 482; Indels 5; Gaps 2	
Dn 179007	atgattcaatacgaagaaggttgtagcttcaccattgcgggaanacccagacaagaatc 179066	
Oy	1 atattaataataaaaagctctaactctgccatcgcggaagcagaccggagaaagtcatc 60	
Oy	61 tatgacgcccggccaattaccggaagtgcgcttgcgttgaggcagaagaatatitcgcatggc 120	
Dn 179067	catacgcggaagcctgttgtaatcaattgtcgattctagttgaggagatcgtgggatgcgt 179126	
Oy	121 ccttcgatbaaatcaagaagagtgtaaacgcgtccaaaaaaggccaagtgtgtttaagaac 180	
Dn 179127	ccttcaatgaagtggtggcggaagcgatgtgttgtaaanaaggtcgaagtactttttaagac 179186	
Oy	181 aaaaagaatcgcggtagtatattatctgcgcgcggtctcagccaatctgcgccttttac 240	
Dn 179187	aaaaaaatcctgtgttaatttttacaagcccccttcaagcggatcacatocacycaatcatc 179246	
Oy	241 ctgtggcgaagaagcgcttactcagtcagtcgtgtgttcgcttgaagcgaacgacgaatlc 300	











QY 372 atcaggtatgactgacgttcgcaaccgttcgttcagcaaatccctgacgtatgc 431  
 Db 303 ATCCGTTTGTGGACCTCGCTGGCACCCCTCCGTTACGAAATTCCTGCGGTGATGC 244  
 QY 432 cgagcgttgcacatcttcgtcaatgcatgacacaaatccgtgctgcgacccac 491  
 Db 243 CGACCGCTTGGCATCTTCTGCAATCGATGACACCAATCCGCGGTGCGGACCCATC 184  
 QY 492 gttcatcaagaagaccccgcaaaacttcaaacgctgctgtgtatgaagcgcct 551  
 Db 183 GGTGATATATCAAAAGAACCCGCCGAGATTTCAAAACCGGCTGTGATTCAGCCGTTT 124  
 QY 552 gaccgaacgtlaaaatccatgtgtlaaagcagcagcagcagcagcgtgcctgtaaatgc 611  
 Db 123 GACCGAACCGCAAAATCATGTTGTATAGCAGCTGGCGAGACGTCCTGTAATAATGC 64  
 QY 612 tgcgaatcgaagaacacgaatttggcgagccgcacatccctgcggttgatgagcagca 671  
 Db 63 TGCCAACTGCAACACATGAAATTCGGCGGCCGATCCTGCGGTTGAGTGCACGCA 4  
 QY 672 cat 674  
 Db 3 CAT 1

## RESULT 12

AA254035/c

ID AA254035 standard; DNA; 363 BP.

AA254035;

DT 21-MAR-2000 (first entry)

DE Neisseria meningitidis ORF 628 partial DNA sequence (SEQ ID NO:2019).

KW Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine;

KW antigenic; diagnosis; immunogenic; infection; meningitis; septicemia;

KW antibacterial; gene therapy; ds.

OS Neisseria meningitidis.

PN WO9957280-A2.

PD 11-NOV-1999.

PF 30-APR-1999; 99WO-US09346.

PR 01-MAY-1998; 98US-0083758.

PR 31-JUL-1998; 98US-0094869.

PR 02-SEP-1998; 98US-0098994.

PR 02-SEP-1998; 98US-0099062.

PR 09-OCT-1998; 98US-0103749.

PR 09-OCT-1998; 98US-0103794.

PR 09-OCT-1998; 98US-0103796.

PR 25-FEB-1999; 99US-0121528.

PA (CHIR) CHIRON CORP.

PA (GENO-) INST GENOMIC RES.

PI Fraser C, Galeotti C, Grandi G, Hickey E, Masignani V, Mora M;

PI Petersen J, Pizsa M, Rappuoli R, Ratti G, Scalato E, Scarselli M;

PI Tettein H, Venter JC;

DR WP1; 2000-062150/05.

DR P-SDB; AAY75273.

PT Novel Neisserial polypeptides predicted to be useful antigens for

PS vaccines and diagnostics

CC Claim 7: Page 1003-1004; 1453pp; English.

CC AA253015 to AA254536, AA254577 to AA254615, and AAY74253 to AAY75941

CC represent novel Neisseria meningitidis and N. gonorrhoeae polynucleotides  
 CC and polypeptides. AA254537 to AA254576 and AA254616 to AA254673 represent  
 CC PCR primers used in the exemplification of the present invention. The  
 CC polypeptides, the polynucleotides, antibodies and compositions of  
 CC the invention can be used as vaccines, as diagnostic reagents, and as  
 CC immunogenic compositions. The polypeptides can be used in the  
 CC manufacture of medicaments for treating or preventing infection due to  
 CC Neisserial bacteria (e.g. meningitis and septicemia), to detect the  
 CC presence of Neisseria bacteria, or to raise antibodies. They may also  
 CC be used to screen for agonists or antagonists, which may themselves  
 CC have use as antibacterial agents. The polynucleotides of the invention  
 CC may also be used in gene therapy protocols.

SQ Sequence 363 BP; 75 A; 105 C; 103 G; 80 T; 0 other;

Query Match 22.4%; Score 300.6; DB: 21; Length 363;  
 Best Local Similarity 89.3%; Pred. No. 9.3e-82;  
 Matches 324; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 312 ctacgtacctgaagcgtctgcacaaatlgagcagcgaataatgctgcgcgaacctgattca 371  
 Db 363 CTACGCGCCCGAAGCGTTGCGCAAACTTAAGCGGAGAGAAAGTGGCGGCATCTGATCCA 304  
 QY 372 atcaggtatgactgacgttcgcaaccgttcgttcagcaaatccctgacgtatgc 431  
 Db 303 ATCCGTTTGTGGACCTCGCTGGCACCCCTCCGTTACGAAATTCCTGCGGTGATGC 244  
 QY 432 cgagcgttgcacatcttcgtcaatgcatgacacaaatccgtgctgcgacccac 491  
 Db 243 CGACCGCTTGGCATCTTCTGCAATCGATGACACCAATCCGCGGTGCGGACCCATC 184  
 QY 492 gttcatcaagaagaccccgcaaaacttcaaacgctgctgtgtatgaagcgcct 551  
 Db 183 GGTGATATATCAAAAGAACCCGCCGAGATTTCAAAACCGGCTGTGATTCAGCCGTTT 124  
 QY 552 gaccgaacgtlaaaatccatgtgtlaaagcagcagcagcagcagcgtgcctgtaaatgc 611  
 Db 123 GACCGAACCGCAAAATCATGTTGTATAGCAGCTGGCGAGACGTCCTGTAATAATGC 64  
 QY 612 tgcgaatcgaagaacacgaatttggcgagccgcacatccctgcggttgatgagcagca 671  
 Db 63 TGCCAACTGCAACACATGAAATTCGGCGGCCGATCCTGCGGTTGAGTGCACGCA 4  
 QY 672 cat 674  
 Db 3 CAT 1

## RESULT 13

ID AAX91657 standard; DNA; 1353 BP.

AAX91657;

DT 25-AUG-1999 (first entry)

DE Porphyromonas gingivalis protein PGI encoding DNA.

KW Porphyromonas gingivalis; PG; periodontal disease; gingivitis;

KW vaccine; antigenic; ds.

OS Porphyromonas gingivalis.

PN WO9929870-A1.

PD 17-JUN-1999.

PF 10-DEC-1998; 98WO-AU01023.

PR 04-AUG-1998; 98AU-0005028.

PR 10-DEC-1997; 97AU-0000839.

PR 31-DEC-1997; 97AU-0001182.



[illegible][illegible]





Mycobacterium tuberculosis cosmid MTY13E10 DNA

KM Isoniazid induced gene: int. antituberculosis agent: isoniazid; INH;  
 KM ethambutol; EMB; infection: tuberculosis; polio; leprosy; malaria;  
 KM tetanus; diphtheria; influenza; measles; mumps; hepatitis; rabies;  
 KM drug screening; tuberculostatic; human immunodeficiency virus; HIV;  
 KM protozoicide; hepatotropic; virucide; antiinflammatory; vaccine;  
 KM cosmid MT13E10; ds.

# Mycobacterium tuberculosis.

XX Key Location/Qualifiers  
 FH CDS 160..1599  
 FT /\*tag= a  
 FT /product= "M. tuberculosis intB protein, RV0341"  
 FT 1536..3558  
 FT /\*tag= b  
 FT /product= "M. tuberculosis intA protein, RV0342"  
 FT 3555..5036  
 FT /\*tag= c  
 FT /product= "M. tuberculosis intC protein, RV0343"  
 FT /transl\_except= (pos: 3555..3557, aa: Met)

US6268201-B1.

31-JUN-2001.

23-OCT-1998; 98US-0177349.

23-OCT-1998; 98US-0177349.

(YESH ) UNIV YESHIVA EINSTEIN COLLEGE.

Alland D, Bloom BR, Jacobs WR;

WPI: 2001-496015/54.

P-PSDB: AAE07166, AAE07167, AAE07168.

Novel isoniazid induced gene B obtained from Mycobacterium.  
 tuberculosis, useful as vaccine for preventing and treating  
 tuberculosis, human immunodeficiency viral infection, leprosy, malaria,  
 tetanus and diphtheria -  
 Claim 1; Fig 5; 26pp; English.

XX The invention relates to the identification, cloning, sequencing and  
 CC characterisation of the isoniazid induced gene A (intA), intB and intC  
 CC of mycobacteria which are induced by a broad class of antibiotics that  
 CC act by inhibiting cell wall biosynthesis, including the first line  
 CC antituberculosis agents, isoniazid (INH) and ethambutol (EMB). intB  
 CC gene is useful as vaccine or to improve existing vaccines, for treating  
 CC mycobacterial infections, caused by mycobacteria such as M. bovis,  
 CC M. tuberculosis, and M. leprae. These vaccines can be used to prevent  
 CC and treat a wide variety of diseases, including tuberculosis, human  
 CC immunodeficiency viral infection, polio, leprosy, malaria, tetanus,  
 CC diphtheria, influenza, measles, mumps, hepatitis and rabies. Determining  
 CC if a mutated intB gene exists in a mycobacterial strain is useful for  
 CC assessing the susceptibility of the mycobacterium to EMB. Vector from  
 CC construct comprising the nucleotide sequence of an intB promoter from  
 CC M. tuberculosis is useful for screening drugs or compounds to determine  
 CC if the drug or compound is effective against M. tuberculosis. The  
 CC present DNA sequence is Mycobacterium tuberculosis cosmid MT13E10  
 CC encoding intA, intB and intC proteins.

XX Sequence 5036 BP; 805 A; 1590 C; 1762 G; 879 T; 0 other;

Query Match 2.7%; Score 35.8; DB 22; Length 5036;  
 Best Local Similarity 54.1%; Pred. No. 4.1;  
 Matches 73; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

415 atccctgcgtagatgcgacgcttcgcatcttcgcatgcgtagacacacacg 474  
 4458 atccgctgcgcatctgcgacgcttcgcatcttcgcatgcgtagacacacacg 4517

475 ctgctgcgacacacacgcatcatcaagaacgacgacgacgacgacgctg 534  
 4518 ctgacgacgacgacgacgacgacgacgacgacgacgacgacgacgacg 4577  
 535 tctgcatgcgacgacg 549  
 4578 ctgctgcgacgacgacgacgacgacgacgacgacgacgacgacgacg 4592

## RESULT 19

AA199683  
 ID AA199683 standard; DNA; 4403765 BP.

AA199683;

15-JAN-2002 (first entry)

Mycobacterium tuberculosis strain H37Rv genome SEQ ID NO 2.

Mycobacterium tuberculosis; strain H37Rv; strain CDC 1551; genome;  
 variation; epidemiology; patient treatment; epidemic monitoring; ds.

Mycobacterium tuberculosis.

US6294328-B1.

25-SEP-2001.

24-JUN-1998; 98US-0103840.

24-JUN-1998; 98US-0103840.

(GENO-) INST GENOMIC RES.

Fleischmann RD, White OR, Fraser CM, Venter JC;

WPI: 2001-647261/74.

Evaluating strain variation of Mycobacterium tuberculosis, comprises  
 determining the nucleotide sequence of the strain at positions in the  
 PT genome corresponding to positions where M. tuberculosis strains CDC  
 PT 1551 and H37Rv differ -

Claim 4; SEQ ID NO 2; 3pp + Sequence Listing; English.

XX The invention relates to evaluating strain variation within and between  
 CC different populations of the tuberculosis bacterial pathogen.  
 CC Mycobacterium tuberculosis or related Mycobacterium by determining the  
 CC nucleotide sequence of the first strain at positions that differ in the  
 CC sequence of the genome that correspond to positions that differ in the  
 CC nucleotide sequences of M. tuberculosis strains CDC 1551 (AA199683) and  
 CC H37Rv (AA199682). The method is useful for evaluating strain variation of  
 CC M. tuberculosis and has valuable application in the fields of  
 CC tuberculosis genetics, epidemiology, patient treatment and epidemic  
 CC monitoring.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from USPRO  
 CC at seqdata.uspro.gov/sequence.html?DocID=6294328B1.

XX Sequence 4403765 BP; 757105 A; 1447799 C; 1441301 G; 757371 T; 189 other;

Query Match 2.7%; Score 35.8; DB 22; Length 4403765;  
 Best Local Similarity 54.1%; Pred. No. 95;  
 Matches 73; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

415 atccctgcgtagatgcgacgcttcgcatcttcgcatgcgtagacacacacg 474  
 413713 atccgctgcgcatctgcgacgcttcgcatcttcgcatgcgtagacacacacg 413772

475 ctgctgcgacacacacgcatcatcaagaacgacgacgacgacgacgctg 534  
 413773 ctgacgacgacgacgacgacgacgacgacgacgacgacgacgacgacg 413832











FN WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.  
XX 23-AUG-2000; 2000US-0649167.  
XX  
PA (HXSE-) HXSEQ INC.  
XX  
PI Drmanac RT, Liu C, Tang YT;  
XX  
DR WPI: 2001-639362/73.  
XX P-PSDB; ABG02255.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
PS Claim 1; SEQ ID No 2246; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pcl\_sequences.  
XX  
SQ Sequence 1938 BP; 500 A; 465 C; 516 G; 457 T; 0 other;  
XX  
Query Match 2.6%; Score 35.2; DB 23; Length 1938;  
Best Local Similarity 51.2%; Pred. No. 3.9;  
Matches 82; Conservative 0; Mismatches 78; Indels 0; Gaps 0;  
XX  
OY 151 gtcaaaagccgaagctgttctgaagacaaaagaatccggcgtagtattactgcg 210  
DB 1048 gttaaagagtcgaataatcgaacccgcgcgacttggaacacggcgatattatcggtcg 1107  
OY 211 ccggcttaagcgaatccgcgtatcaccggtgacgaagaagcgcgactactcagtcgctc 270  
DB 1108 gcggcgatggaacaaatcgctcagcgtcgggcgaacattatcggtgacgcg 1167  
OY 271 gtgattgcgctgaagcgaacgacgaatcgagttcgaaac 310  
DB 1168 gtgattgacgaagcgcgtcaccgaagcgaaggtttacgaac 1207  
XX  
RESULT 27  
AAS86095  
ID AAS86095 standard; cDNA; 323 BP.  
XX  
AC AAS86095;  
XX  
DT 13-FEB-2002 (first entry)  
XX

DE DNA encoding novel human diagnostic protein #21899.  
XX  
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.  
XX 23-AUG-2000; 2000US-0649167.  
XX  
PA (HXSE-) HXSEQ INC.  
XX  
PI Drmanac RT, Liu C, Tang YT;  
XX  
DR WPI: 2001-639362/73.  
XX P-PSDB; ABG21908.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
PS Claim 1; SEQ ID No 21899; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pcl\_sequences.  
XX  
SQ Sequence 323 BP; 95 A; 86 C; 84 G; 58 T; 0 other;  
XX  
Query Match 2.6%; Score 35; DB 23; Length 323;  
Best Local Similarity 59.6%; Pred. NO. 1.9;  
Matches 59; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
XX  
OY 1242 gacgaagaagacccctcgttctgacgttcgtcccggaacaaatcagaatagggcc 1301  
DB 37 ggcgcgcgagatgggctgctgcgtcccaaccgcggacacattcggaggtgcca 96  
OY 1302 gctgttcgcaagctgcgtcgaacacattgagaagaag 1340  
DB 97 ccggaagtgcgaagacgcttccattcgaatcgaagaag 135  
XX  
RESULT 28  
AAF25080/C  
ID AAF25080 standard; DNA; 697 BP.  
XX  
AC AAF25080;



Query Match	2.6%;	Score 35;	DB 23;	Length 1689;
Best Local Similarity	59.6%;	Pred. No. 4.2;		
Matches	59;	Conservative	0;	Mismatches 40;
				Indels 0;
				Gaps 0;

The present sequence is human G-protein coupled receptor-3 (GCRG-3) cDNA. GCRG3 is useful in somatic or germ-line gene therapy to correct a genetic deficiency, to express a conditionally lethal gene product and to express a protein which affords protection against intracellular parasites and also for diagnosis of disorders associated with expression of GCRG3. GCRG3 is also useful for generating hybridisation probes useful



PI Dmanac RT, Liu C, Tang YT;  
XX  
DR WPI: 2001-639362/73.  
DR P-PSDB; ABG21554.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity.  
XX  
PS Claim 1; SEQ ID No 21545; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 1875 BP; 393 A; 554 C; 535 G; 393 T; 0 other;

Query Match 2.6%; Score 34.8; DB 23; Length 1875;  
Best Local Similarity 52.0%; Pred. No. 5.1;  
Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

OY 962 acaatcagatttcggttcgaagaagcgcgcgaagaagctgttcggttcggttcgc 1021  
DB 800 ATAACTGAAATATCTGATCCTTGATGACGGCGGAGGAGATTGCCAGTTTGGCG 741  
OY 1022 cgcagcgcgaacaatactccatcgcgcgcgcacacacttcggttcggttcgc 1081  
DB 740 AAACGTGGGGTGAATATATATCGCCGCCACCTCATGAAACATGCGAAGCAGCAACA 681  
OY 1082 tctcaagttcagcagcgcgtcaacgcgcg 1111  
DB 680 TCACCAATGCGCTGAAATATATGCAAAAGCGC 651

## RESULT 34

IDS AAS8534 standard; CDNA; 2196 BP.

AC AAS8534;

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #18338.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

XX

PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX  
PA (HYSE-) HYSEQ INC.

PI Dmanac RT, Liu C, Tang YT;  
XX  
DR WPI: 2001-639362/73.  
DR P-PSDB; ABG18347.

PT New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity.

PS Claim 1; SEQ ID No 18338; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 2196 BP; 497 A; 570 C; 620 G; 509 T; 0 other;

Query Match 2.6%; Score 34.8; DB 23; Length 2196;  
Best Local Similarity 52.0%; Pred. No. 5.5;  
Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

OY 962 acaatcagatttcggttcgaagaagcgcgcgaagaagctgttcggttcggttcgc 1021  
DB 914 ataagtgatattctgtatccttgatgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 973  
OY 1022 cgcagcgcgaacaatactccatcgcgcgcgcacacacttcggttcggttcgc 1081  
DB 974 aaaagctggggggtgaatatatcgcgcgcgcacacacacatgaatcgcgaagcgcgcgc 1033  
OY 1082 tctcaagttcagcagcgcgtcaacgcgcg 1111  
DB 1034 tcacaatgcgtgaatatcgcgaagcgcg 1063

## RESULT 35

IDS AAS85733/C standard; CDNA; 2196 BP.

AC AAS85733;

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #21537.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.



XX OS Homo sapiens.  
XX PN WO200175067-A2.  
XX PD 11-OCT-2001.  
XX PF 30-MAR-2001; 2001WO-US08631.  
XX PR 31-MAR-2000; 2000US-0540217.  
XX PR 23-AUG-2000; 2000US-0649167.  
XX PA (HYSE-) HYSEQ INC.  
XX PI Dmanac RT, Liu C, Tang YT;  
XX DR WPI; 2001-639362/73.  
XX DR P-PDB; ABG21546.  
XX PT New isolated polynucleotide and encoded polypeptides, useful in  
XX PT diagnostics, forensics, gene mapping, identification of mutations  
XX PT responsible for genetic disorders or other traits and to assess  
XX PT biodiversity -  
XX PS Claim 1; SEQ ID No 21537; 103pp; English.  
XX CC The invention relates to isolated polynucleotide (I) and  
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX CC and gene mapping, and in recombinant production of (II). The  
XX CC polynucleotides are also used in diagnostics as expressed sequence tags  
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques  
XX CC to restore normal activity of (II) or to treat disease states involving  
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as  
XX CC a food supplement. (II) and its binding partners are useful for treating  
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating  
XX CC disorders involving aberrant protein expression or biological activity.  
XX CC The polypeptide and polynucleotide sequences have applications in  
XX CC diagnostics, forensics, gene mapping, identification of mutations  
XX CC responsible for genetic disorders or other traits to assess biodiversity  
XX CC and to produce other types of data and products dependent on DNA and  
XX CC amino acid sequences. AAS64197-AAS94564 represent novel human  
XX CC diagnostic coding sequences of the invention.  
XX CC Note: The sequence data for this patent did not appear in the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX SQ Sequence 2196 BP; 509 A; 620 C; 570 G; 497 T; 0 other;  
Query Match 2.6%; Score 34.8; DB 23; Length 2196;  
Best Local Similarity 52.0%; Pred. No. 5.5;  
Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;  
OY 962 acatcagattccgtatcgaaagcgcgcaagaagcgttgcgtgttggcg 1021  
DB 1283 ATAACTGAATATCTGTGATGTCGCGCAGGAGAAAGATTTTCAGATTTGCGC 1224  
OY 1022 cgcagcgagacaataatcaccatcgaagcgaccactctgcgcattctctaataacaac 1081  
DB 1223 AAAAGCGGGGTGAATATATTCGCCCCACCACTCATGAAACATGCGCAAGACGACGAC 1164  
OY 1082 tcttcagttcagacagcgcgtcaagcg 1111  
DB 1163 TCACACATGCGCTGAATATATGCGCAAGCGC 1134  
RESULT 36  
AAS89351  
ID AAS89351 standard; CDNA; 2196 BP.  
XX AAS89351:  
AC

XX DT 13-FEB-2002 (first entry)  
XX DE DNA encoding novel human diagnostic protein #25155.  
XX KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX OS Homo sapiens.  
XX PN WO200175067-A2.  
XX PD 11-OCT-2001.  
XX PF 30-MAR-2001; 2001WO-US08631.  
XX PR 31-MAR-2000; 2000US-0540217.  
XX PR 23-AUG-2000; 2000US-0649167.  
XX PA (HYSE-) HYSEQ INC.  
XX PI Dmanac RT, Liu C, Tang YT;  
XX DR WPI; 2001-639362/73.  
XX DR P-PDB; ABG25164.  
XX PT New isolated polynucleotide and encoded polypeptides, useful in  
XX PT diagnostics, forensics, gene mapping, identification of mutations  
XX PT responsible for genetic disorders or other traits and to assess  
XX PT biodiversity -  
XX PS Claim 1; SEQ ID No 25155; 103pp; English.  
XX CC The invention relates to isolated polynucleotide (I) and  
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX CC and gene mapping, and in recombinant production of (II). The  
XX CC polynucleotides are also used in diagnostics as expressed sequence tags  
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques  
XX CC to restore normal activity of (II) or to treat disease states involving  
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as  
XX CC a food supplement. (II) and its binding partners are useful in medical  
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating  
XX CC disorders involving aberrant protein expression or biological activity.  
XX CC The polypeptide and polynucleotide sequences have applications in  
XX CC diagnostics, forensics, gene mapping, identification of mutations  
XX CC responsible for genetic disorders or other traits to assess biodiversity  
XX CC and to produce other types of data and products dependent on DNA and  
XX CC amino acid sequences. AAS64197-AAS94564 represent novel human  
XX CC diagnostic coding sequences of the invention.  
XX CC Note: The sequence data for this patent did not appear in the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX SQ Sequence 2196 BP; 497 A; 570 C; 620 G; 509 T; 0 other;  
Query Match 2.6%; Score 34.8; DB 23; Length 2196;  
Best Local Similarity 52.0%; Pred. No. 5.5;  
Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;  
OY 962 acatcagattccgtatcgaaagcgcgcaagaagcgttgcgtgttggcg 1021  
DB 914 ataagctgaataatctggtcttgatgagcgcgcaaggaagatttcgcagttggcg 973  
OY 1022 cgcagcgagacaataatcaccatcgaagcgaccactctgcgcattctctaataacaac 1081  
DB 974 aaaaagtggtggtgaataatctgcgcaccactctgaacatcgaaagcgagcaaca 1033  
OY 1082 tcttcagttcagacagcgcgtcaagcg 1111  
DB 1034 tcacacatgctgaataatgccaagcg 1063

QY 962 acatacagatattccgtatalcgaagaagcgccagcaagaagctgttcgctggttcgc 102

Db 914 ataaagcgaatactgtatccttgatgacgcgcgcaggaagagtttcgcacatttcgc 973

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 CC at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).  
 CC  
 CC  
 CC Sequence 3810 BP; 894 A; 1035 C; 1032 G; 849 T; 0 other;



1 = 1980s; 2 = 1990s; 3 = 2000s; 4 = 2010s; 5 = 2020s; 6 = 2030s; 7 = 2040s; 8 = 2050s; 9 = 2060s; 10 = 2070s; 11 = 2080s; 12 = 2090s; 13 = 2100s; 14 = 2110s; 15 = 2120s; 16 = 2130s; 17 = 2140s; 18 = 2150s; 19 = 2160s; 20 = 2170s; 21 = 2180s; 22 = 2190s; 23 = 2200s; 24 = 2210s; 25 = 2220s; 26 = 2230s; 27 = 2240s; 28 = 2250s; 29 = 2260s; 30 = 2270s; 31 = 2280s; 32 = 2290s; 33 = 2300s; 34 = 2310s; 35 = 2320s; 36 = 2330s; 37 = 2340s; 38 = 2350s; 39 = 2360s; 40 = 2370s; 41 = 2380s; 42 = 2390s; 43 = 2400s; 44 = 2410s; 45 = 2420s; 46 = 2430s; 47 = 2440s; 48 = 2450s; 49 = 2460s; 50 = 2470s; 51 = 2480s; 52 = 2490s; 53 = 2500s; 54 = 2510s; 55 = 2520s; 56 = 2530s; 57 = 2540s; 58 = 2550s; 59 = 2560s; 60 = 2570s; 61 = 2580s; 62 = 2590s; 63 = 2600s; 64 = 2610s; 65 = 2620s; 66 = 2630s; 67 = 2640s; 68 = 2650s; 69 = 2660s; 70 = 2670s; 71 = 2680s; 72 = 2690s; 73 = 2700s; 74 = 2710s; 75 = 2720s; 76 = 2730s; 77 = 2740s; 78 = 2750s; 79 = 2760s; 80 = 2770s; 81 = 2780s; 82 = 2790s; 83 = 2800s; 84 = 2810s; 85 = 2820s; 86 = 2830s; 87 = 2840s; 88 = 2850s; 89 = 2860s; 90 = 2870s; 91 = 2880s; 92 = 2890s; 93 = 2900s; 94 = 2910s; 95 = 2920s; 96 = 2930s; 97 = 2940s; 98 = 2950s; 99 = 2960s; 100 = 2970s; 101 = 2980s; 102 = 2990s; 103 = 3000s; 104 = 3010s; 105 = 3020s; 106 = 3030s; 107 = 3040s; 108 = 3050s; 109 = 3060s; 110 = 3070s; 111 = 3080s; 112 = 3090s; 113 = 3100s; 114 = 3110s; 115 = 3120s; 116 = 3130s; 117 = 3140s; 118 = 3150s; 119 = 3160s; 120 = 3170s; 121 = 3180s; 122 = 3190s; 123 = 3200s; 124 = 3210s; 125 = 3220s; 126 = 3230s; 127 = 3240s; 128 = 3250s; 129 = 3260s; 130 = 3270s; 131 = 3280s; 132 = 3290s; 133 = 3300s; 134 = 3310s; 135 = 3320s; 136 = 3330s; 137 = 3340s; 138 = 3350s; 139 = 3360s; 140 = 3370s; 141 = 3380s; 142 = 3390s; 143 = 3400s; 144 = 3410s; 145 = 3420s; 146 = 3430s; 147 = 3440s; 148 = 3450s; 149 = 3460s; 150 = 3470s; 151 = 3480s; 152 = 3490s; 153 = 3500s; 154 = 3510s; 155 = 3520s; 156 = 3530s; 157 = 3540s; 158 = 3550s; 159 = 3560s; 160 = 3570s; 161 = 3580s; 162 = 3590s; 163 = 3600s; 164 = 3610s; 165 = 3620s; 166 = 3630s; 167 = 3640s; 168 = 3650s; 169 = 3660s; 170 = 3670s; 171 = 3680s; 172 = 3690s; 173 = 3700s; 174 = 3710s; 175 = 3720s; 176 = 3730s; 177 = 3740s; 178 = 3750s; 179 = 3760s; 180 = 3770s; 181 = 3780s; 182 = 3790s; 183 = 3800s; 184 = 3810s; 185 = 3820s; 186 = 3830s; 187 = 3840s; 188 = 3850s; 189 = 3860s; 190 = 3870s; 191 = 3880s; 192 = 3890s; 193 = 3900s; 194 = 3910s; 195 = 3920s; 196 = 3930s; 197 = 3940s; 198 = 3950s; 199 = 3960s; 200 = 3970s; 201 = 3980s; 202 = 3990s; 203 = 4000s; 204 = 4010s; 205 = 4020s; 206 = 4030s; 207 = 4040s; 208 = 4050s; 209 = 4060s; 210 = 4070s; 211 = 4080s; 212 = 4090s; 213 = 4100s; 214 = 4110s; 215 = 4120s; 216 = 4130s; 217 = 4140s; 218 = 4150s; 219 = 4160s; 220 = 4170s; 221 = 4180s; 222 = 4190s; 223 = 4200s; 224 = 4210s; 225 = 4220s; 226 = 4230s; 227 = 4240s; 228 = 4250s; 229 = 4260s; 230 = 4270s; 231 = 4280s; 232 = 4290s; 233 = 4300s; 234 = 4310s; 235 = 4320s; 236 = 4330s; 237 = 4340s; 238 = 4350s; 239 = 4360s; 240 = 4370s; 241 = 4380s; 242 = 4390s; 243 = 4400s; 244 = 4410s; 245 = 4420s; 246 = 4430s; 247 = 4440s; 248 = 4450s; 249 = 4460s; 250 = 4470s; 251 = 4480s; 252 = 4490s; 253 = 4500s; 254 = 4510s; 255 = 4520s; 256 = 4530s; 257 = 4540s; 258 = 4550s; 259 = 4560s; 260 = 4570s; 261 = 4580s; 262 = 4590s; 263 = 4600s; 264 = 4610s; 265 = 4620s; 266 = 4630s; 267 = 4640s; 268 = 4650s; 269 = 4660s; 270 = 4670s; 271 = 4680s; 272 = 4690s; 273 = 4700s; 274 = 4710s; 275 = 4720s; 276 = 4730s; 277 = 4740s; 278 = 4750s; 279 = 4760s; 280 = 4770s; 281 = 4780s; 282 = 4790s; 283 = 4800s; 284 = 4810s; 285 = 4820s; 286 = 4830s; 287 = 4840s; 288 = 4850s; 289 = 4860s; 290 = 4870s; 291 = 4880s; 292 = 4890s; 293 = 4900s; 294 = 4910s; 295 = 4920s; 296 = 4930s; 297 = 4940s; 298 = 4950s; 299 = 4960s; 300 = 4970s; 301 = 4980s; 302 = 4990s; 303 = 5000s; 304 = 5010s; 305 = 5020s; 306 = 5030s; 307 = 5040s; 308 = 5050s; 309 = 5060s; 310 = 5070s; 311 = 5080s; 312 = 5090s; 313 = 5100s; 314 = 5110s; 315 = 5120s; 316 = 5130s; 317 = 5140s; 318 = 5150s; 319 = 5160s; 320 = 5170s; 321 = 5180s; 322 = 5190s; 323 = 5200s; 324 = 5210s; 325 = 5220s; 326 = 5230s; 327 = 5240s; 328 = 5250s; 329 = 5260s; 330 = 5270s; 331 = 5280s; 332 = 5290s; 333 = 5300s; 334 = 5310s; 335 = 5320s; 336 = 5330s; 337 = 5340s; 338 = 5350s; 339 = 5360s; 340 = 5370s; 341 = 5380s; 342 = 5390s; 343 = 5400s; 344 = 5410s; 345 = 5420s; 346 = 5430s; 347 = 5440s; 348 = 5450s; 349 = 5460s; 350 = 5470s; 35

WPI: 2001-616774/71.

Claim 1; SEQ ID No 53; 1069pp; English

Sequences AAAS59506-AAAS59804 represent DNA molecules encoding *Propionibacterium* acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by *P. acnes*. The disorders include SAMPO syndrome (synovitis, acne, pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis. *P. acnes* is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of *P. acnes* in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides may be used as antigens in the production of antibodies specific for *P. acnes* proteins. These antibodies can be used to downregulate expression and activity of *P. acnes* polypeptides and therefore treat *P. acnes* infections. The antibodies can be used as diagnostic agents for determining *P. acnes* presence, for example, by enzyme linked immunosorbent assay (ELISA). This sequence encodes the polypeptides shown in AAUS29255-AAUS3195 and AA067543-AA067545.



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CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pcl\_sequences.  
XX

SQ Sequence 2367 BP; 530 A; 691 C; 645 G; 501 T; 0 other;

Query Match 2.5%; Score 33.8; DB 23; Length 2367;  
Best Local Similarity 54.4%; Pred. No. 12;  
Matches 68; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 186 gaatcggcgctagttacttcgctgcgcgttcaggaataatccgctattcacctgtg 245  
DB 859 GGAACACGGCGATTATTCGTCGGCGGCGCATGCAAAATCGCTCAGCAACGCGGCGC 800

QY 246 cgaagaagcgcgtacttcagtcagtcgcttgaagcgaacgaacgaatcgagt 305  
DB 799 AGATTATCGGGCGACGCTGCGGCGACCGCTGATTAGCGAAGCGGTCACGAAGGATTTA 740

QY 306 cgaac 310  
DB 739 CGAAC 735

RESULT 45

AAS73427/c  
ID AAS73427 standard; CDNA; 2367 BP.

XX AAS73427;

XX 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #9231.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;

XX food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.

XX 31-MAR-2000; 2000US-0540217.

XX 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.

XX P-PSDB; ABG09240.

XX New isolated polynucleotide and encoded polypeptides, useful in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits and to assess  
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PS Claim 1; SEQ ID NO 9231; 103pp; English.

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Query Match 2.5%; Score 33.8; DB 23; Length 2367;  
Best Local Similarity 54.4%; Pred. No. 12;  
Matches 68; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 186 gaatcggcgctagttacttcgctgcgcgttcaggaataatccgctattcacctgtg 245  
DB 859 GGAACACGGCGATTATTCGTCGGCGGCGCATGCAAAATCGCTCAGCAACGCGGCGC 800

QY 246 cgaagaagcgcgtacttcagtcagtcgcttgaagcgaacgaacgaatcgagt 305  
DB 799 AGATTATCGGGCGACGCTGCGGCGACCGCTGATTAGCGAAGCGGTCACGAAGGATTTA 740

QY 306 cgaac 310  
DB 739 CGAAC 735

Search completed: June 30, 2002, 13:46:02  
Job time: 67395 sec